

Output cell

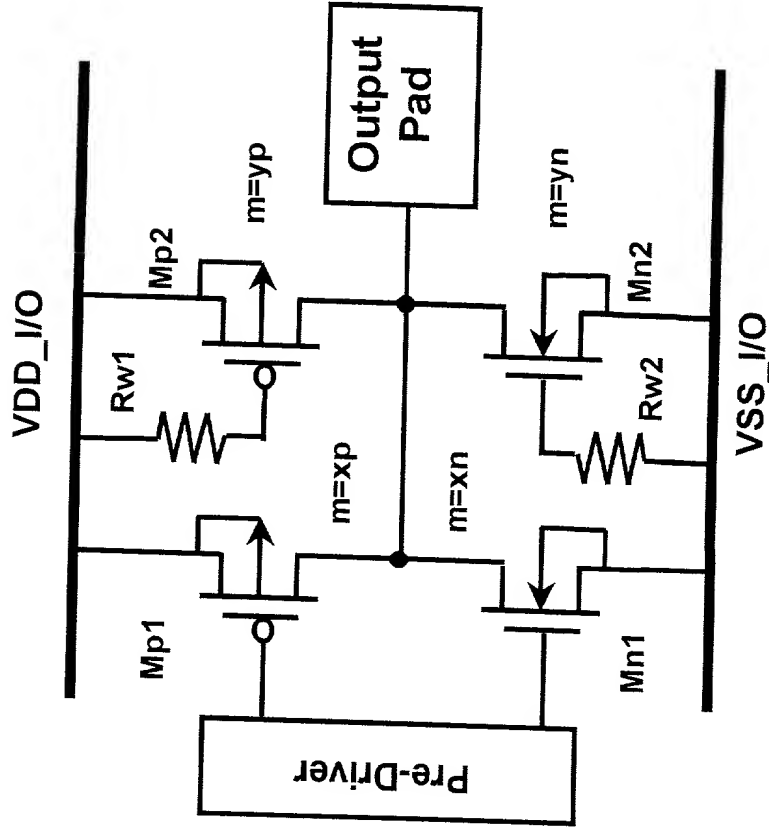


Fig.1(a)  
Prior Art

Input cell

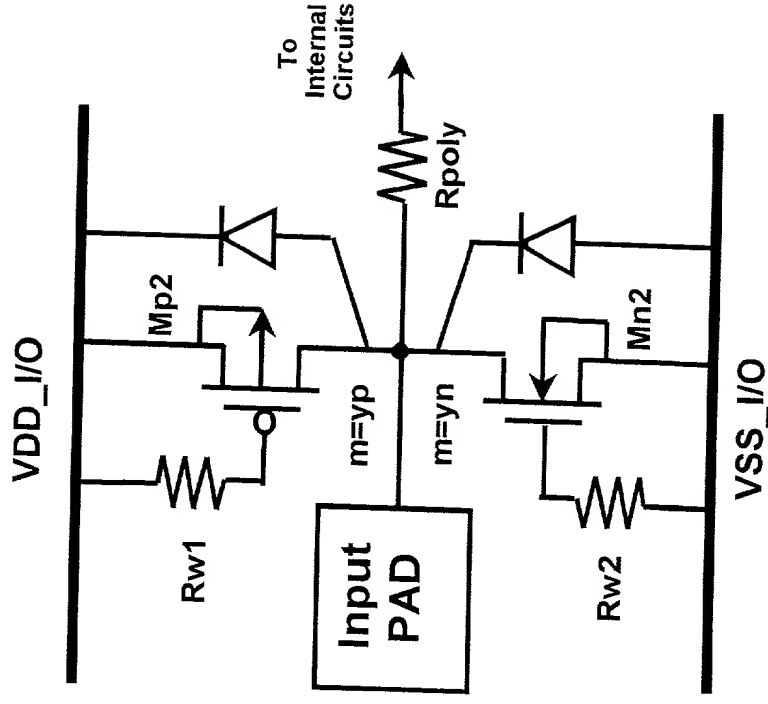


Fig.1(b)  
Prior Art



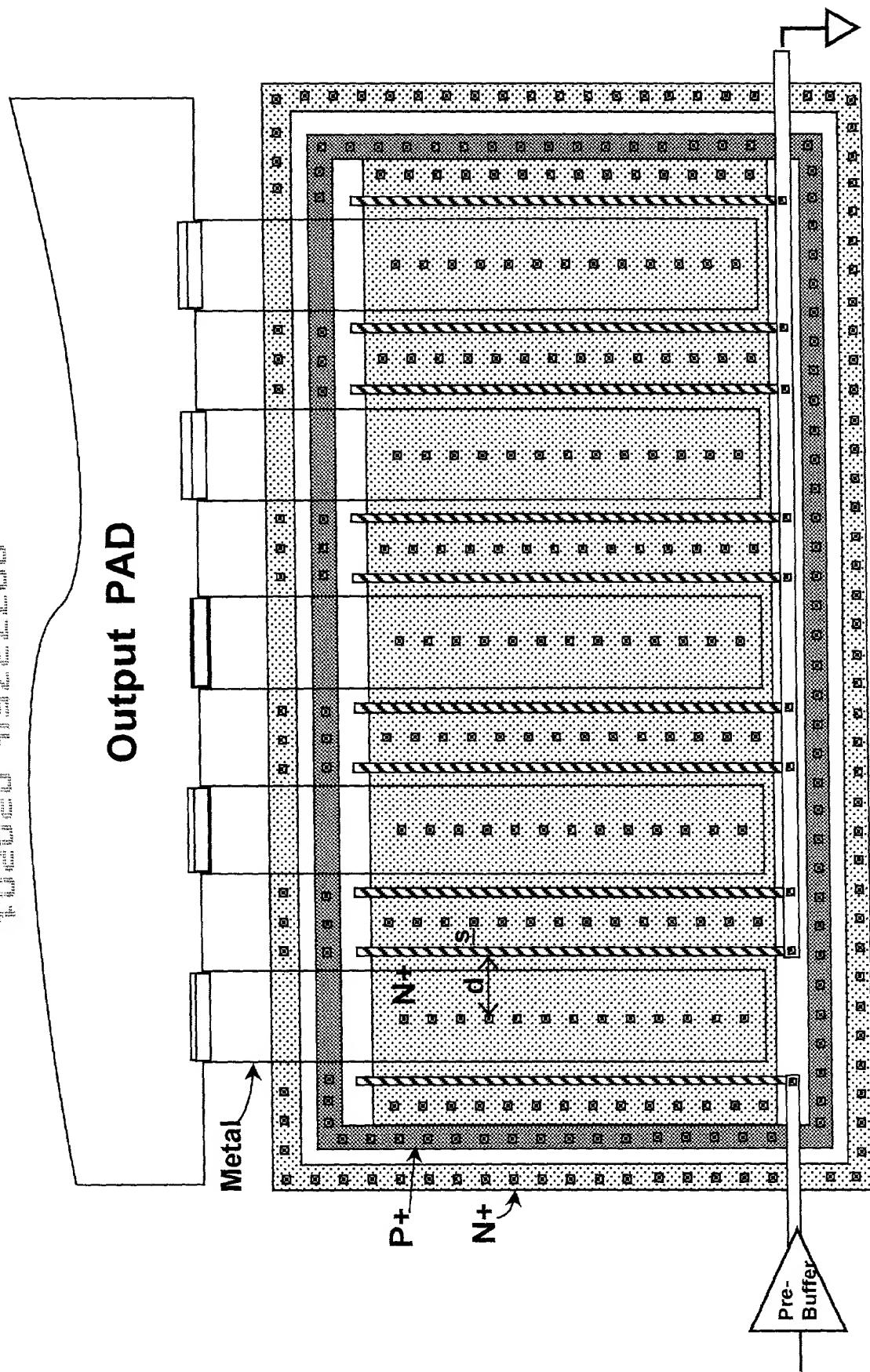


Fig.2(a)  
Prior Art

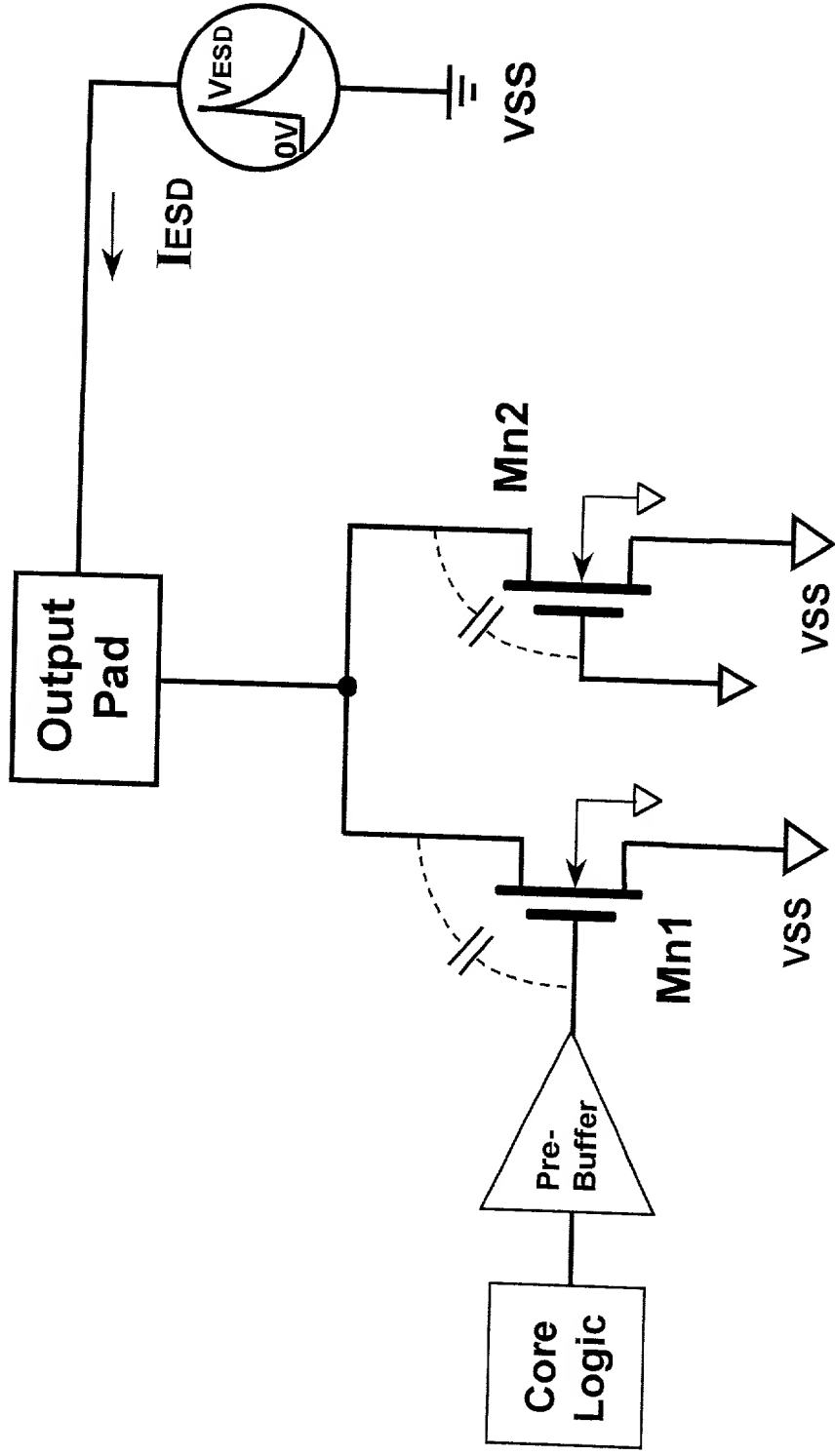


Fig.2(b)

Prior Art



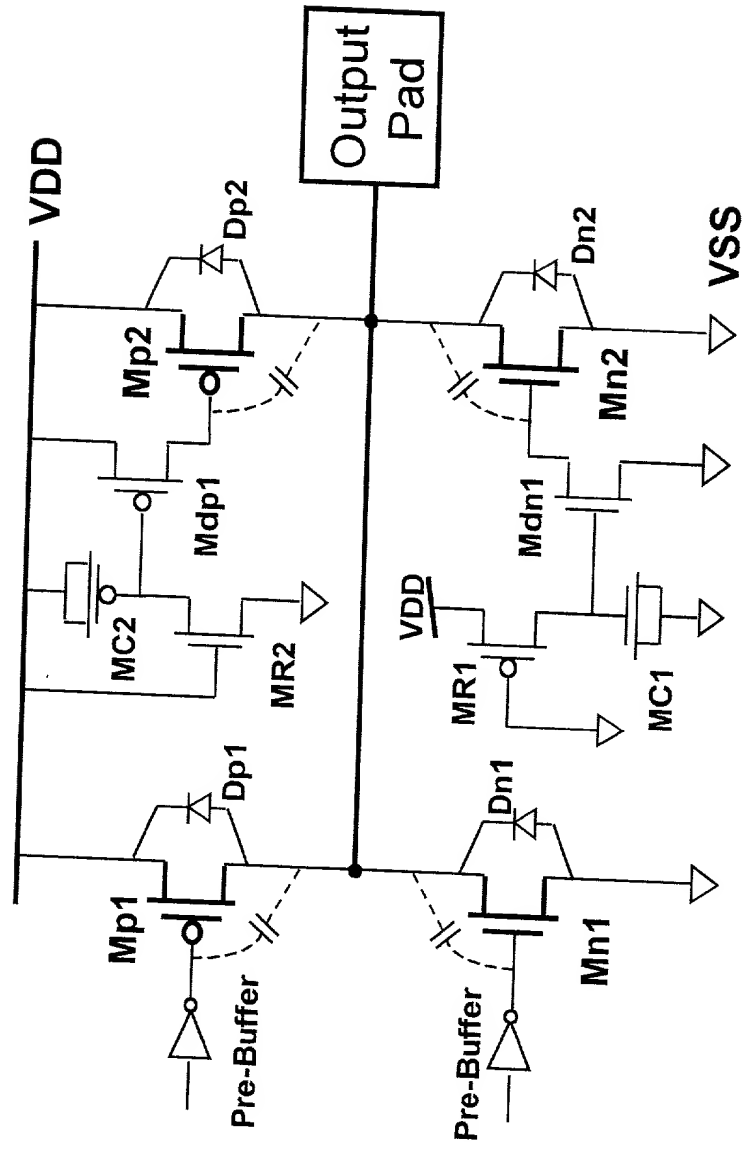


Fig.5

Prior Art

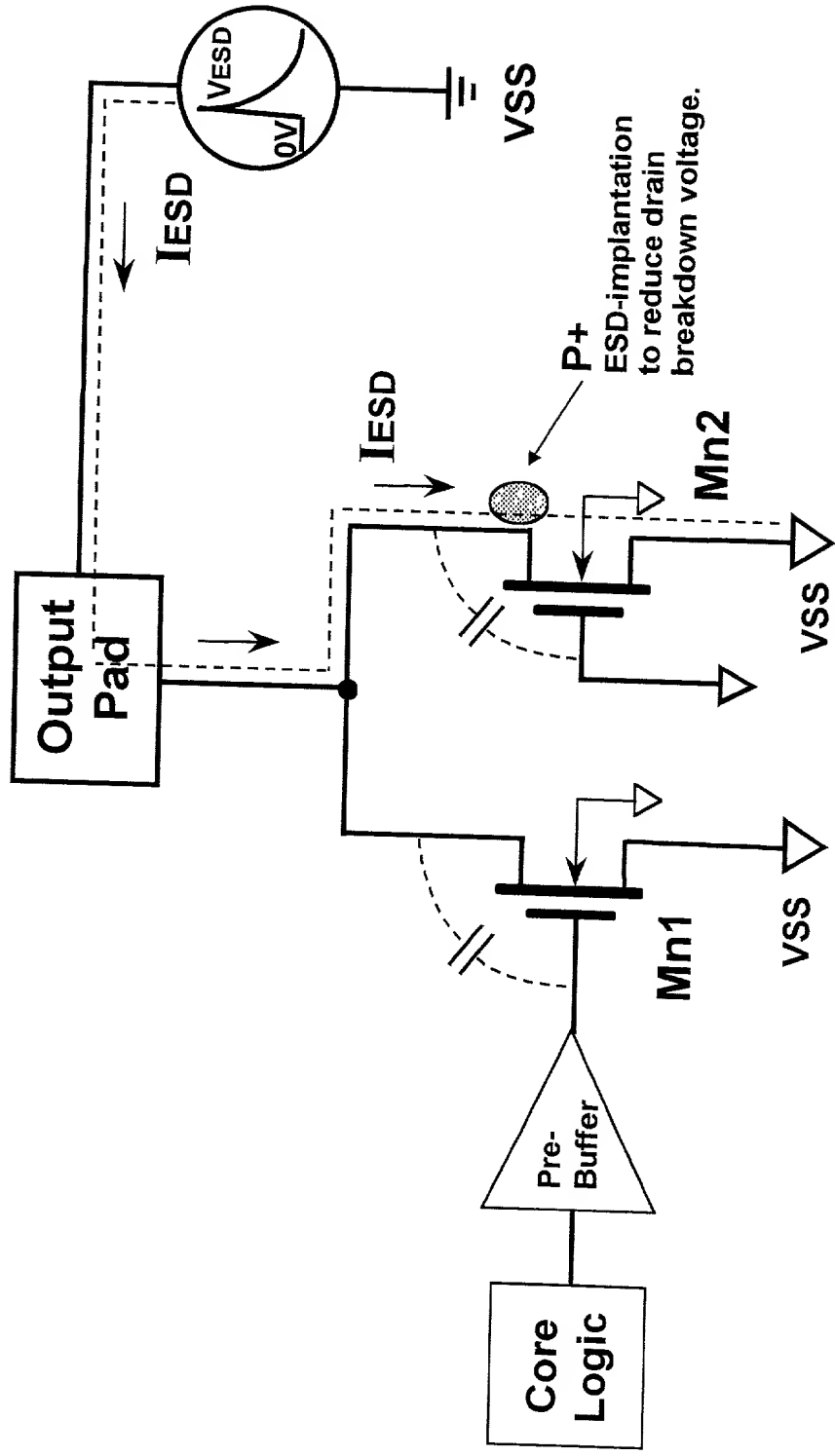


Fig.6(a)

Prior Art

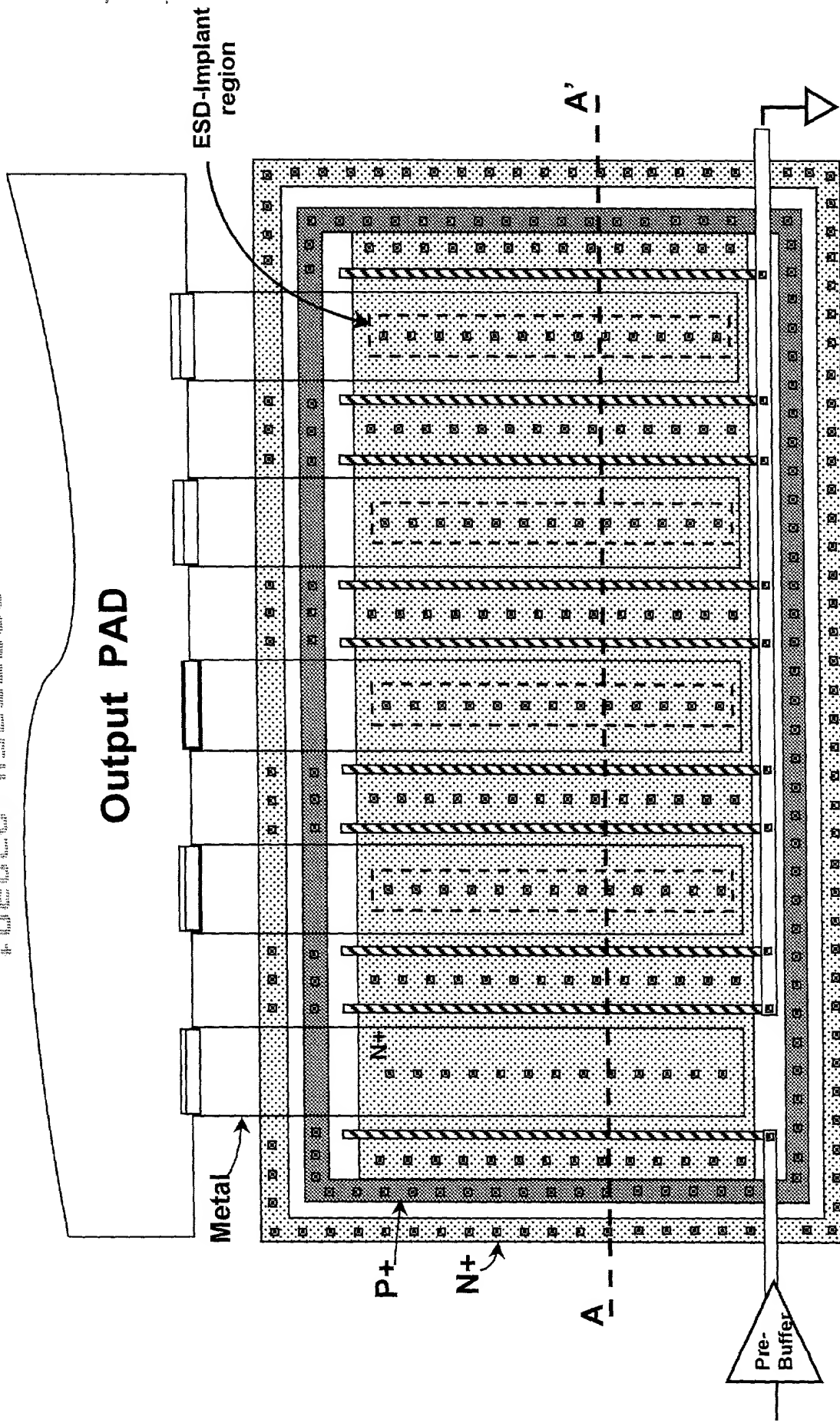


Fig.6(b)  
Prior Art



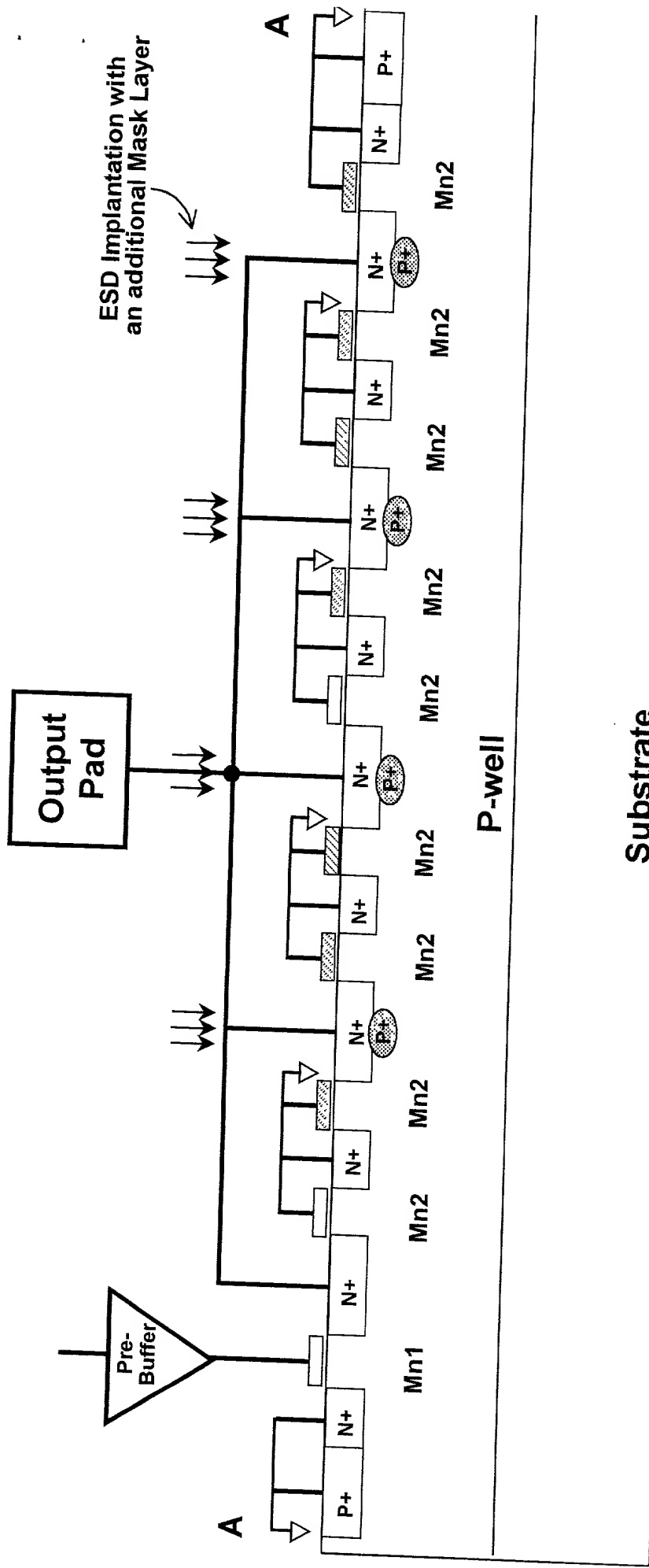


Fig.6(c)

Prior Art



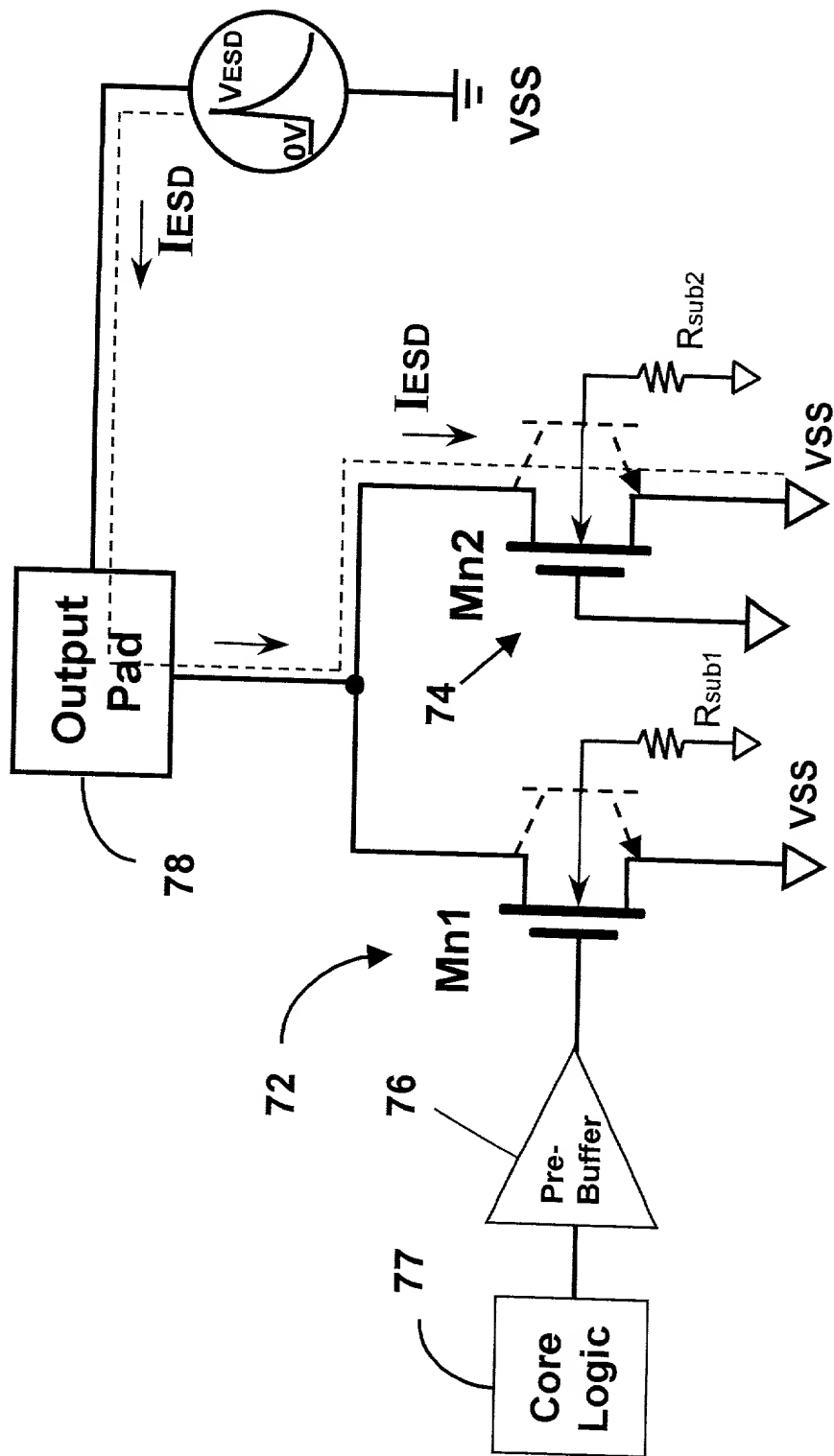


Fig. 7(b)

Output PAD

Metal

The additional  
P<sup>+</sup> pick-up diffusion

P<sup>+</sup>

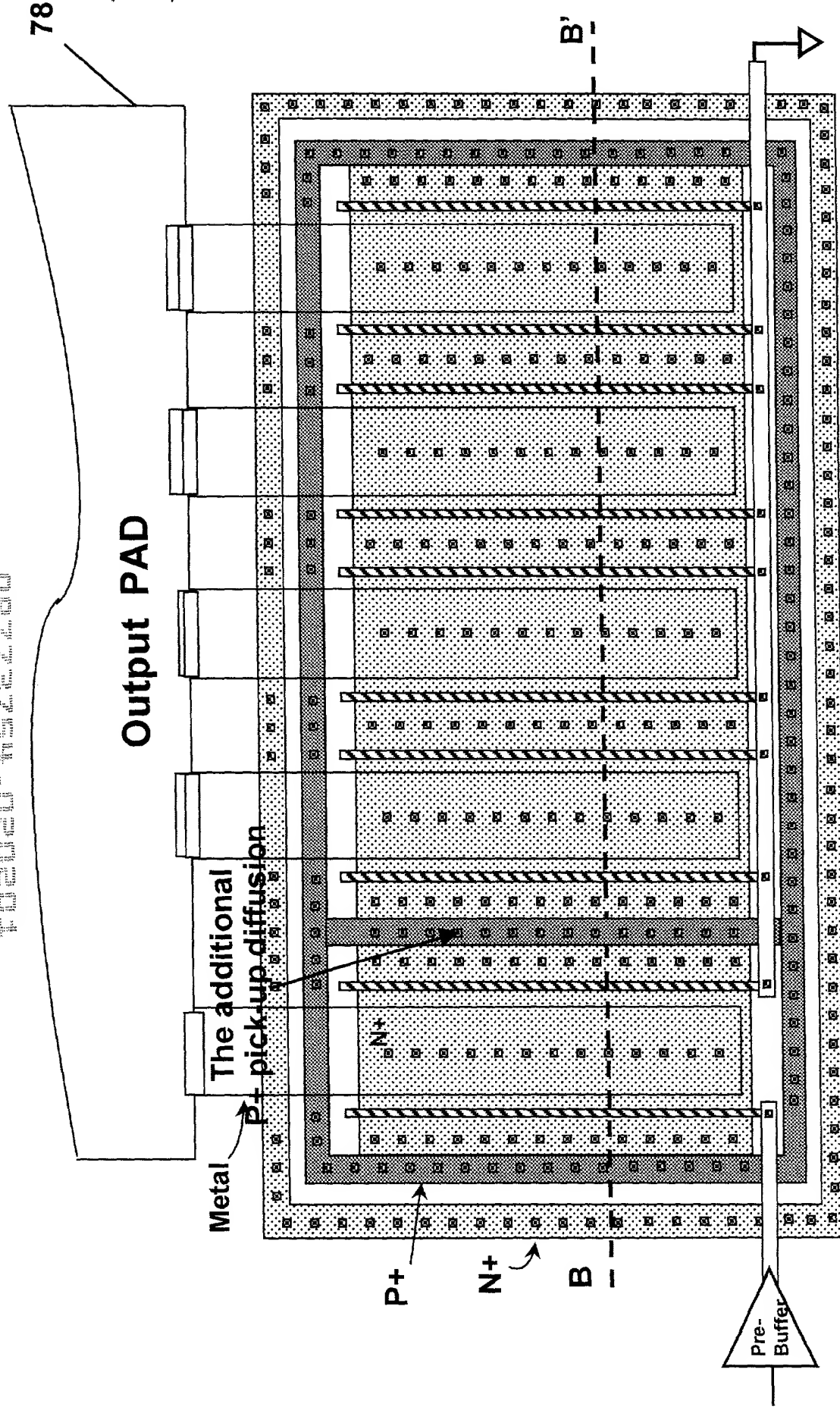
N<sup>+</sup>

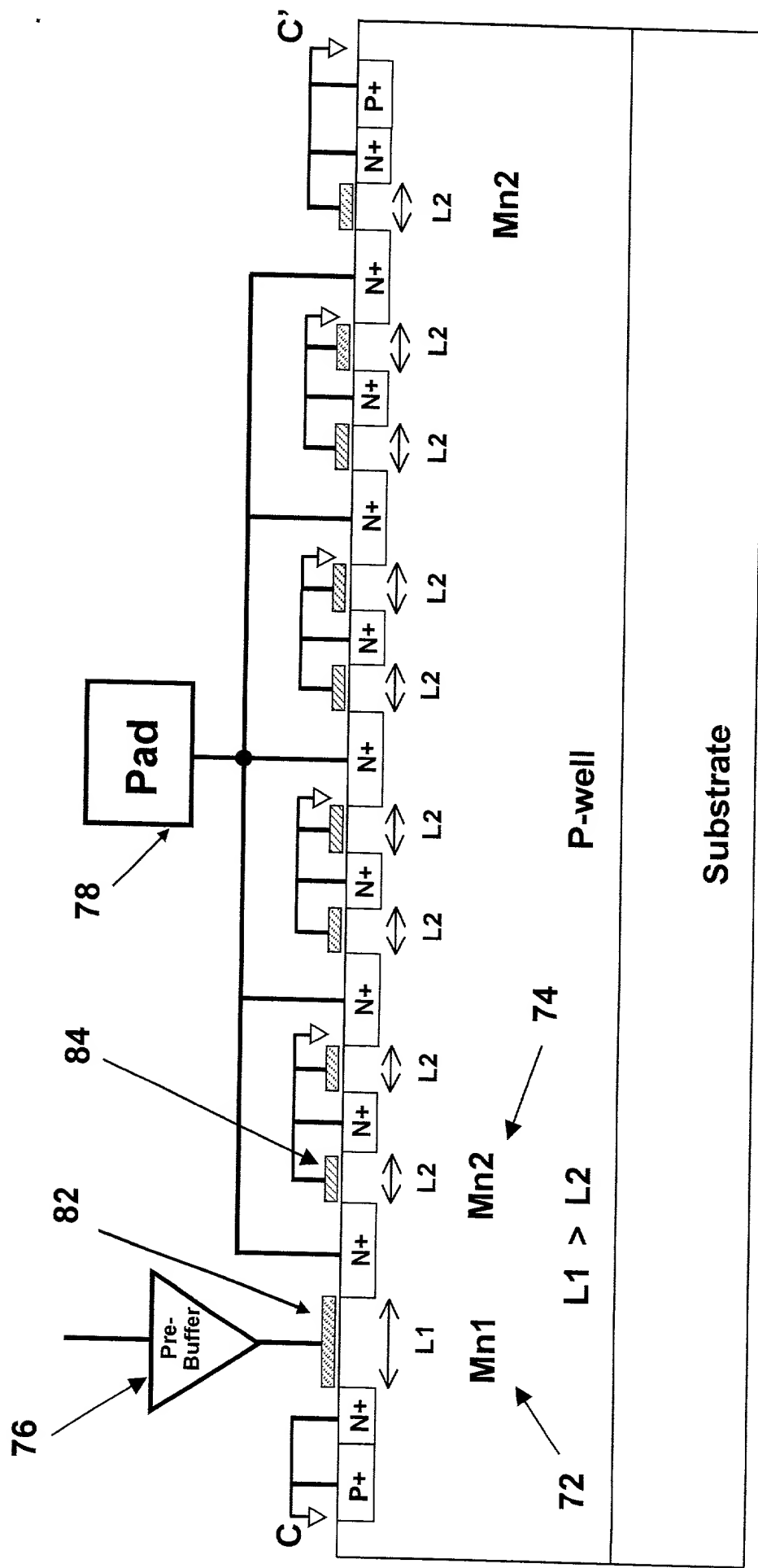
B<sup>-</sup>

B<sup>-</sup>

Pre-  
Buffer

Fig.7(c)





**Fig. 8(a)**

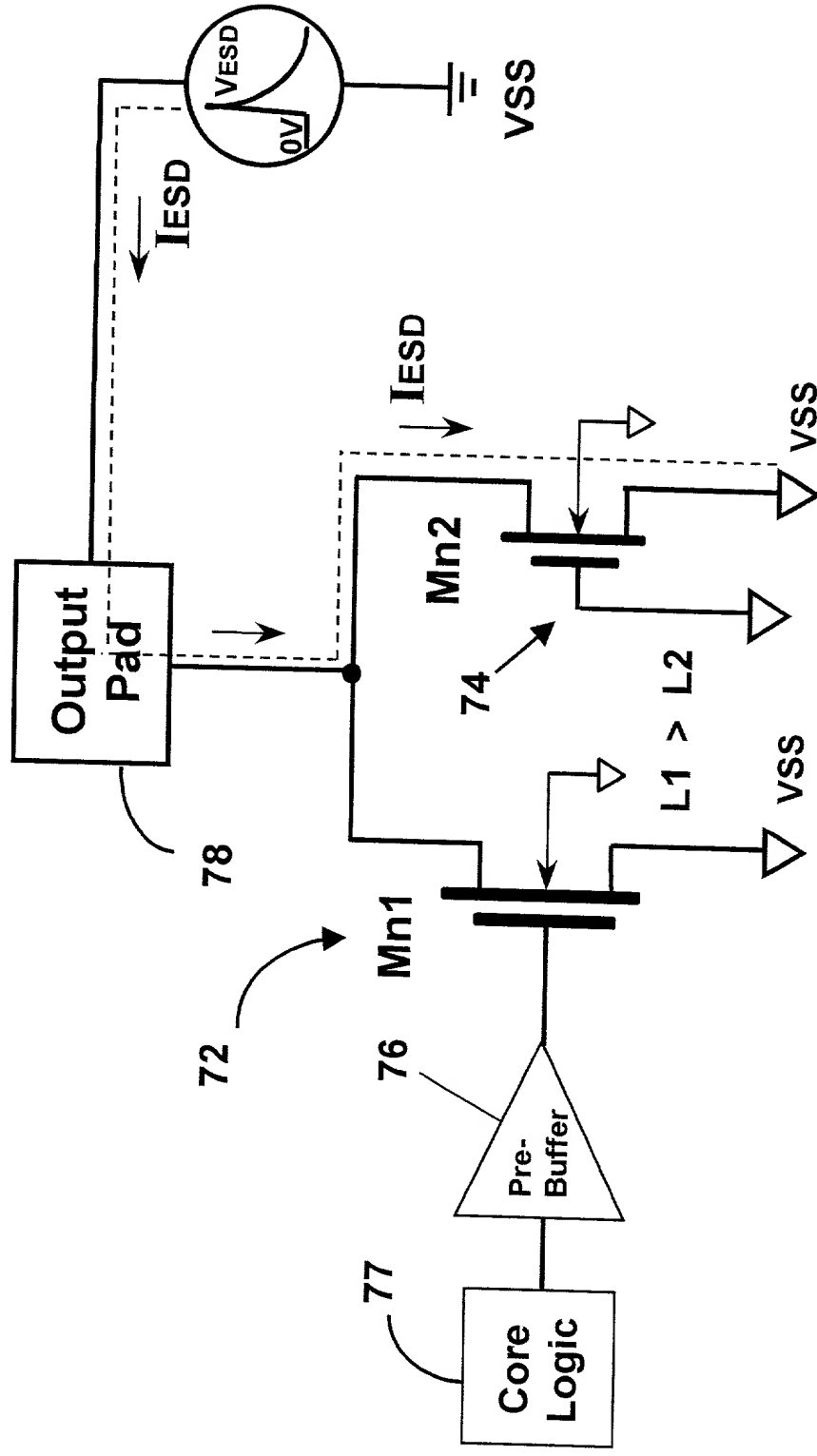


Fig.8(b)

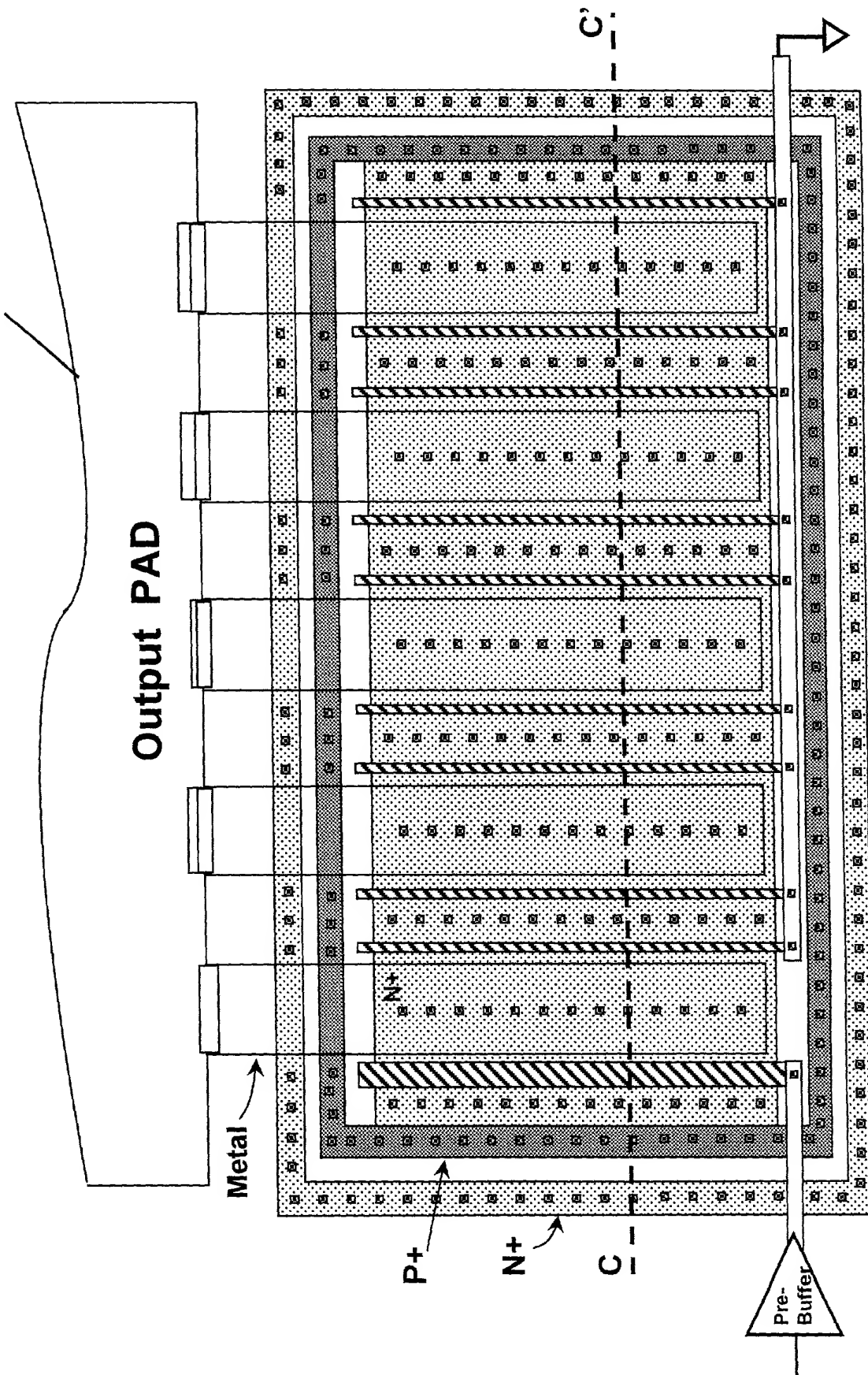


Fig.8(c)

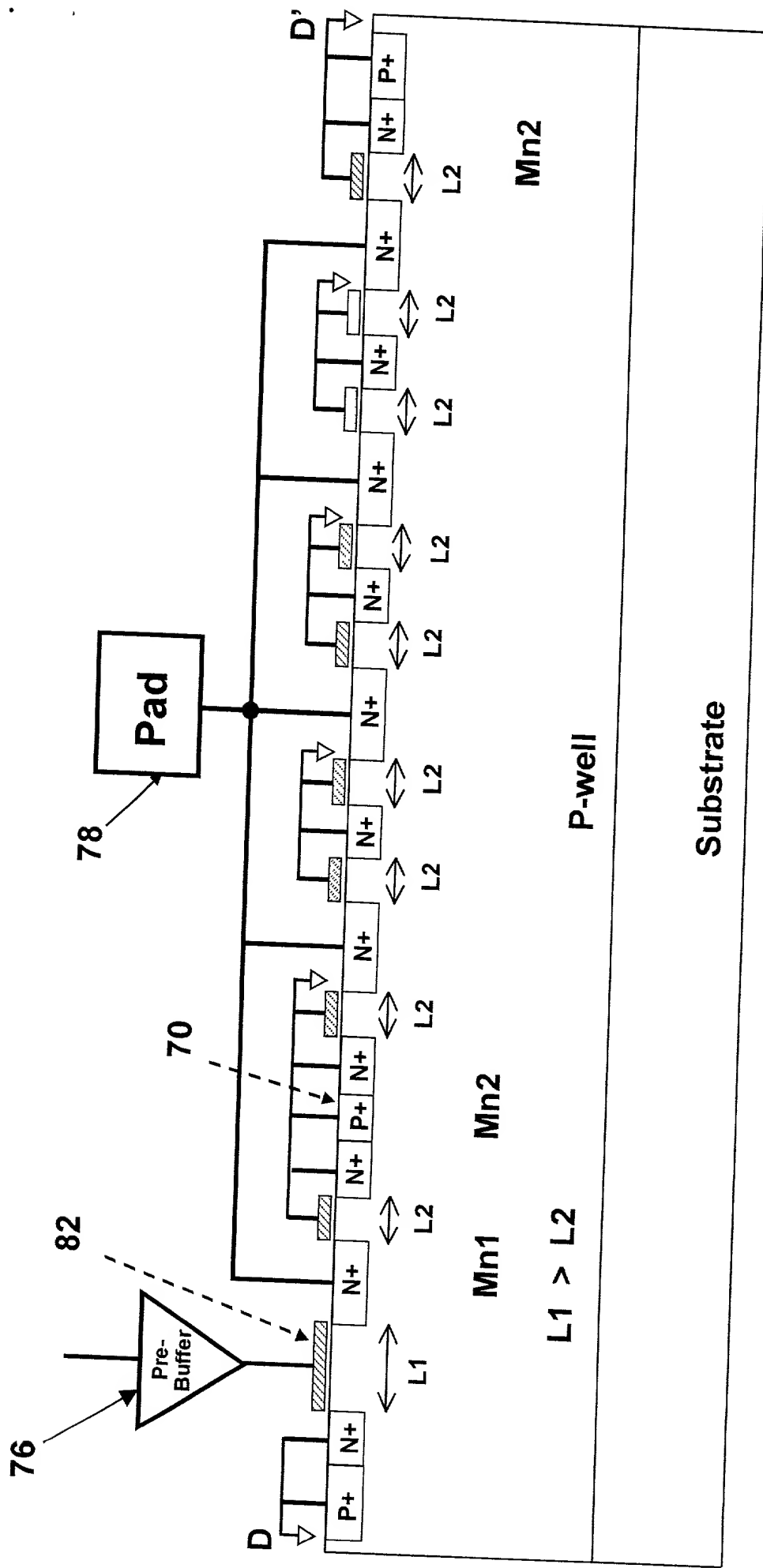


Fig. 9(a)



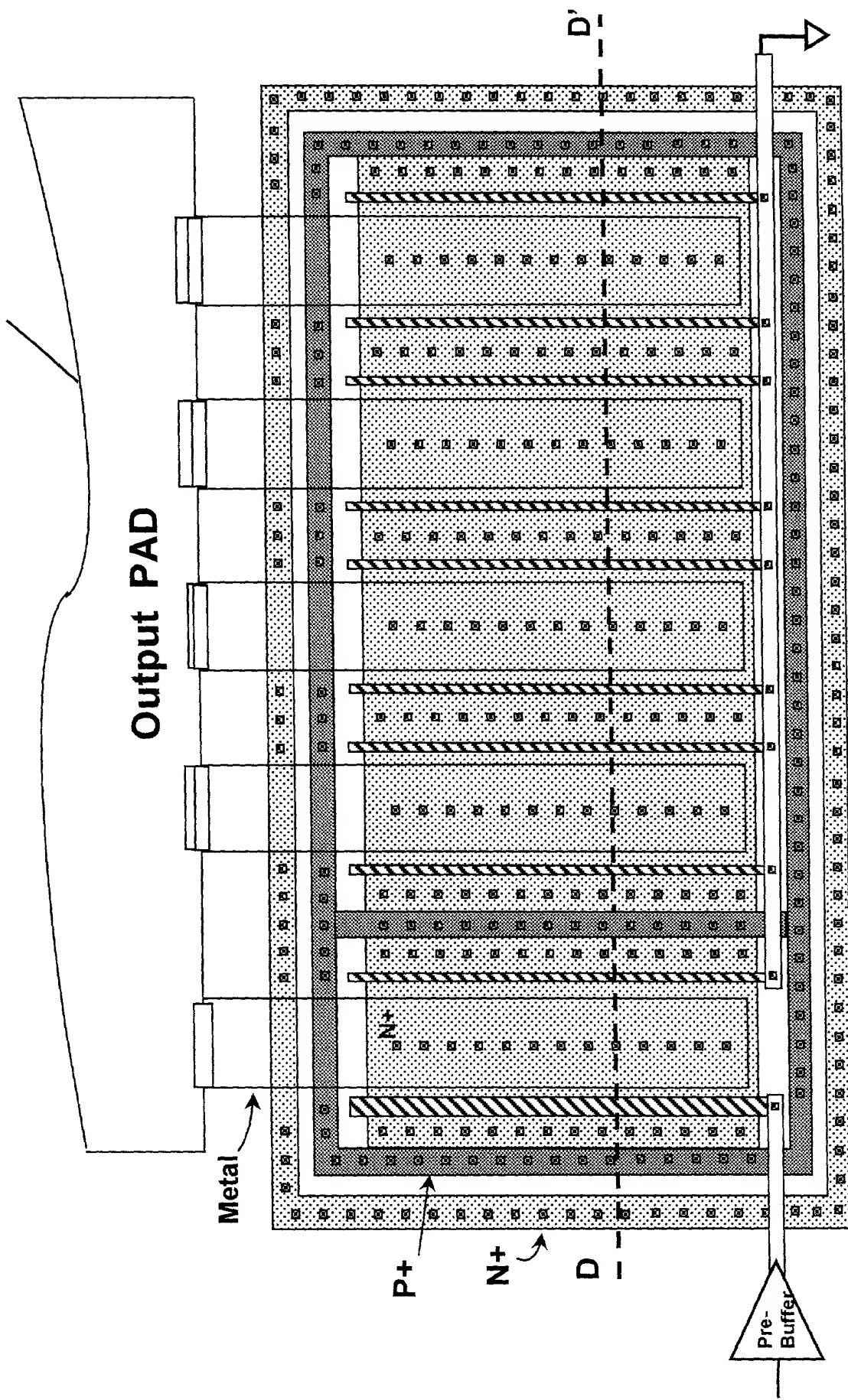


Fig. 9(b)



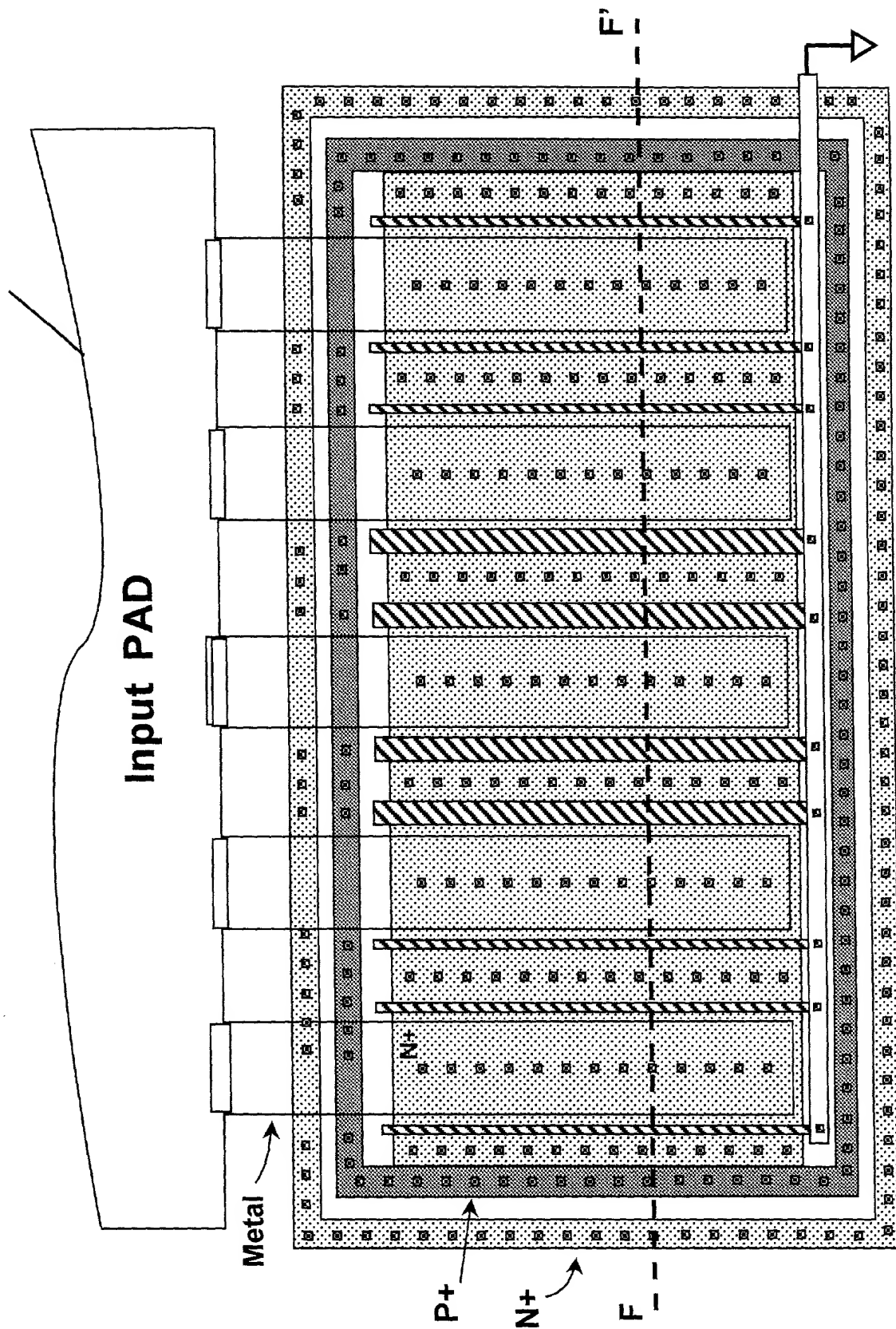


Fig.11(a)

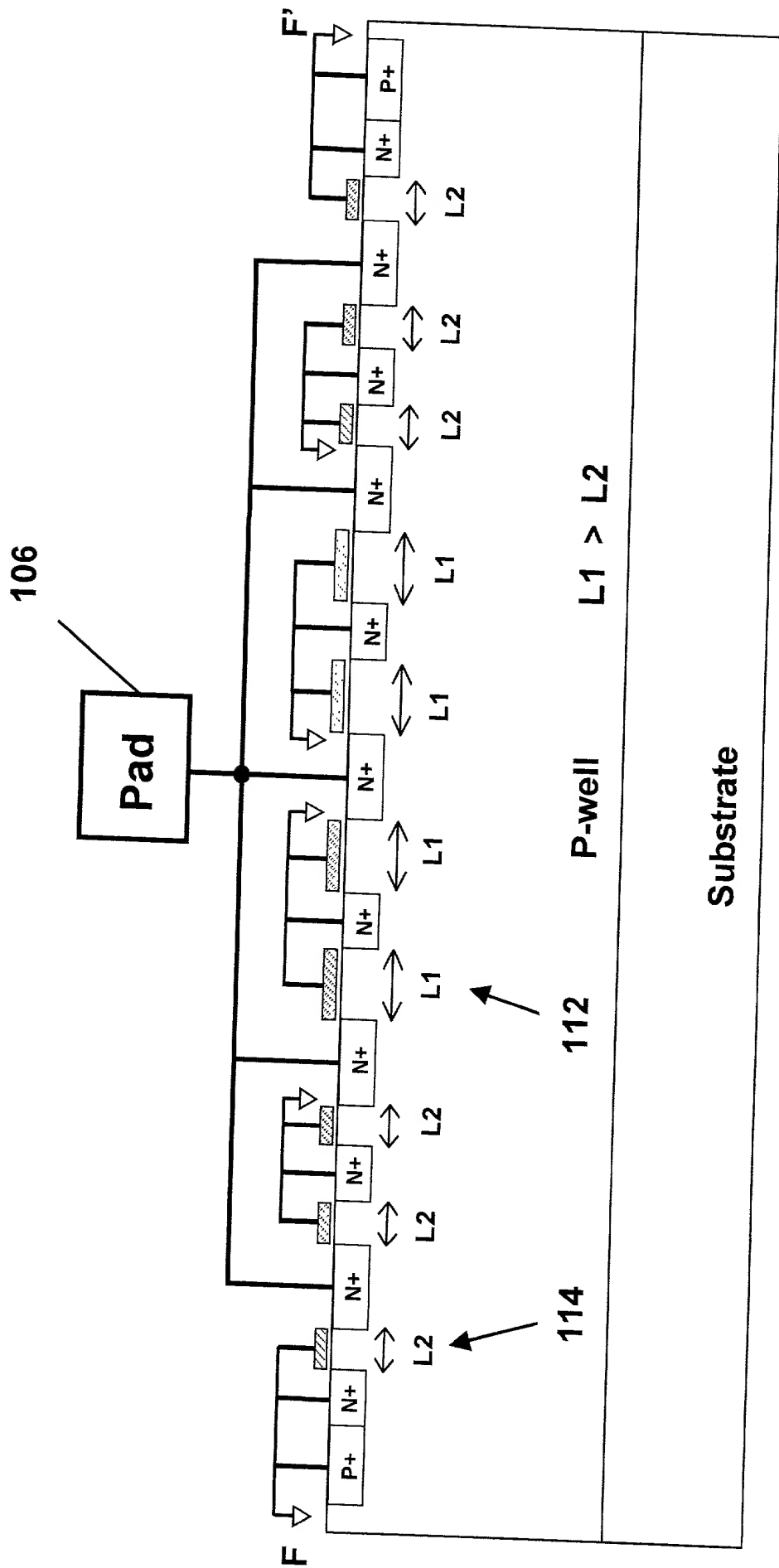


Fig.11(b)

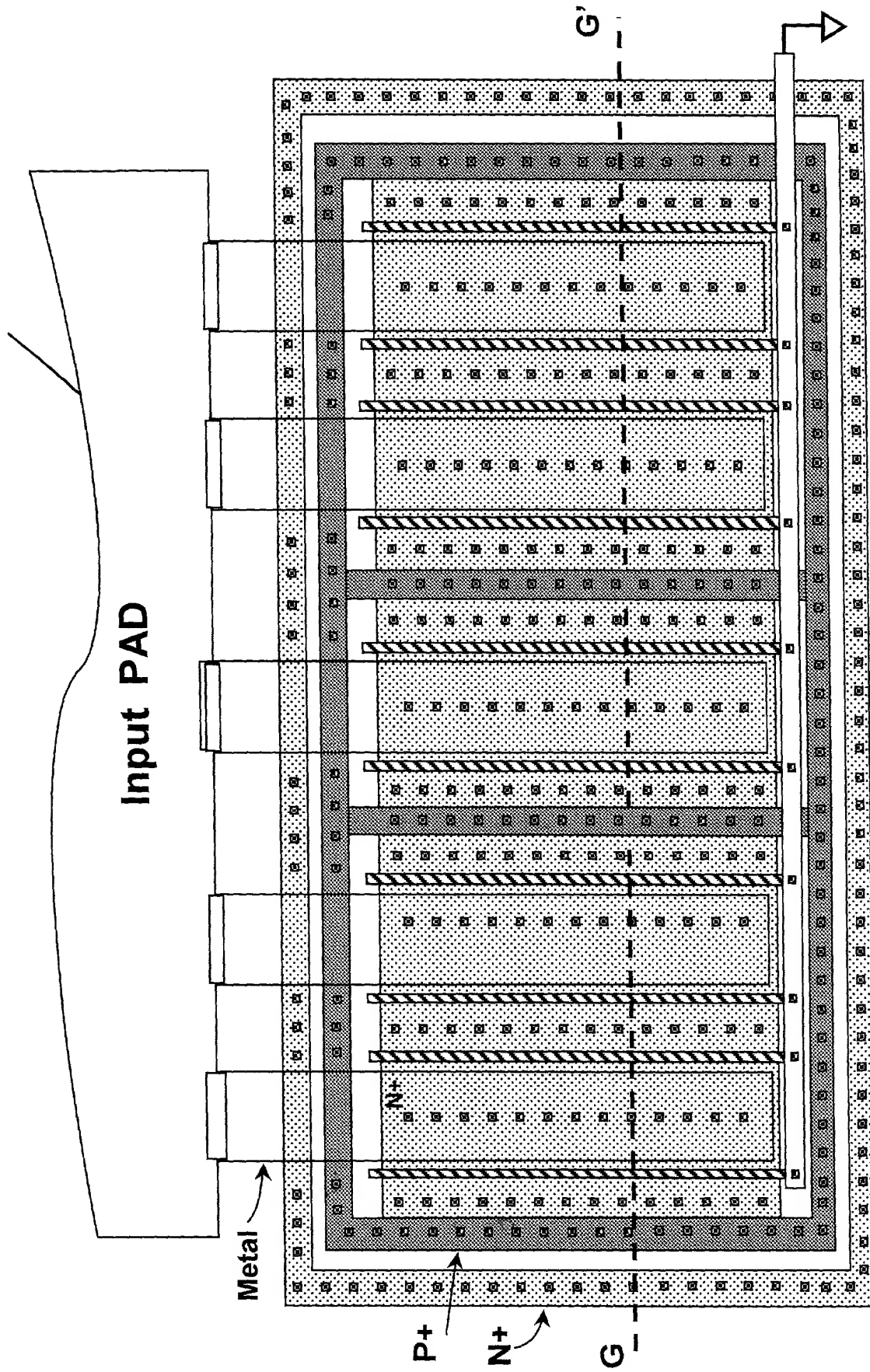


Fig.12(a)

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Pad

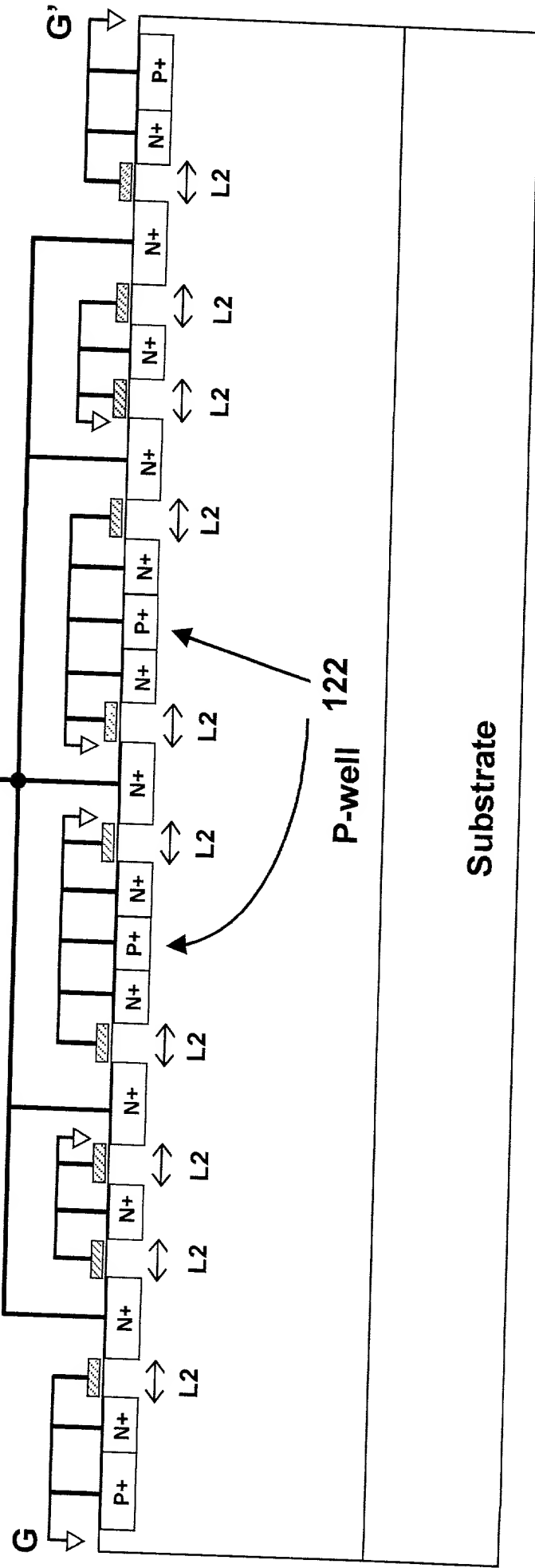


Fig.12(b)

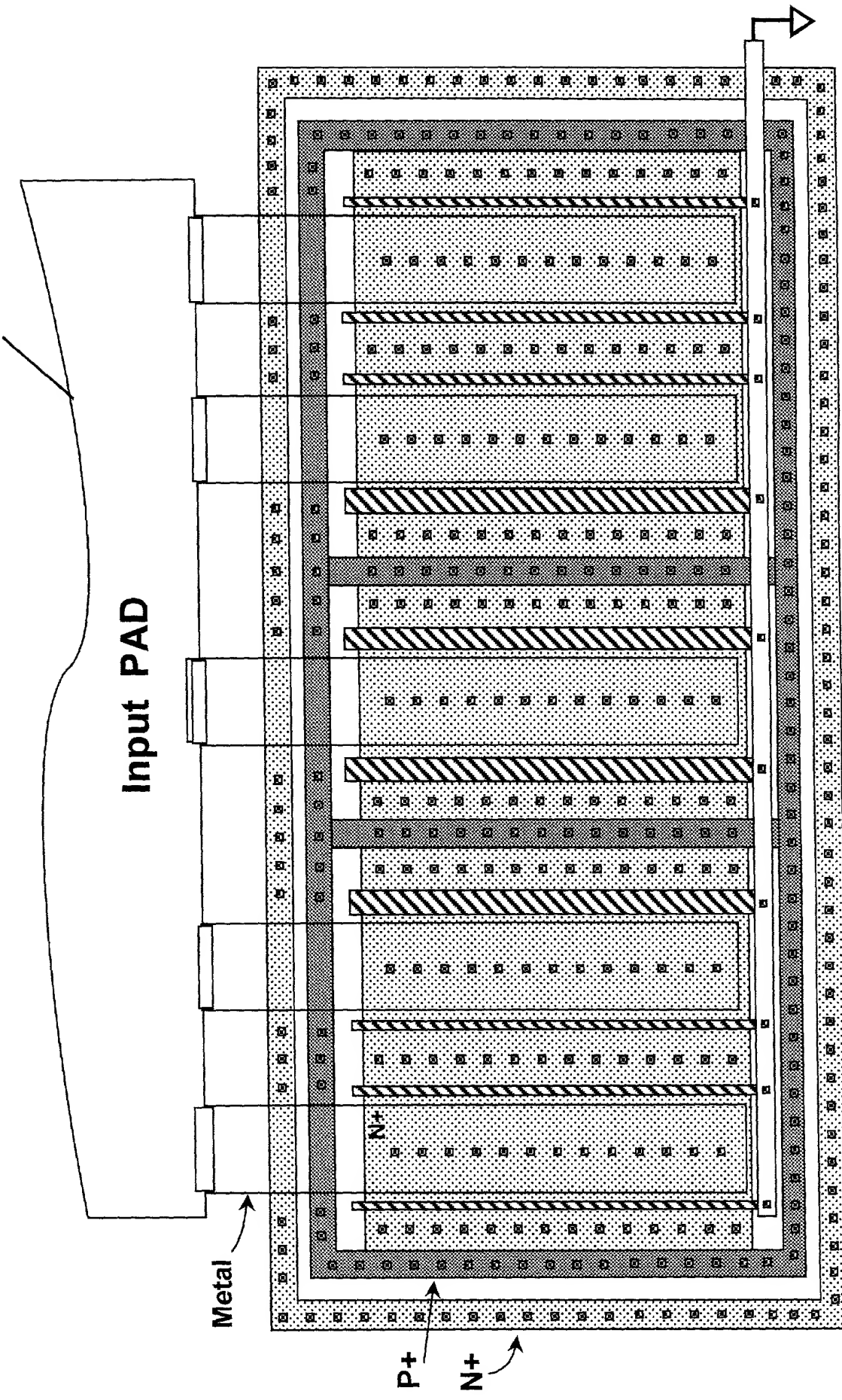
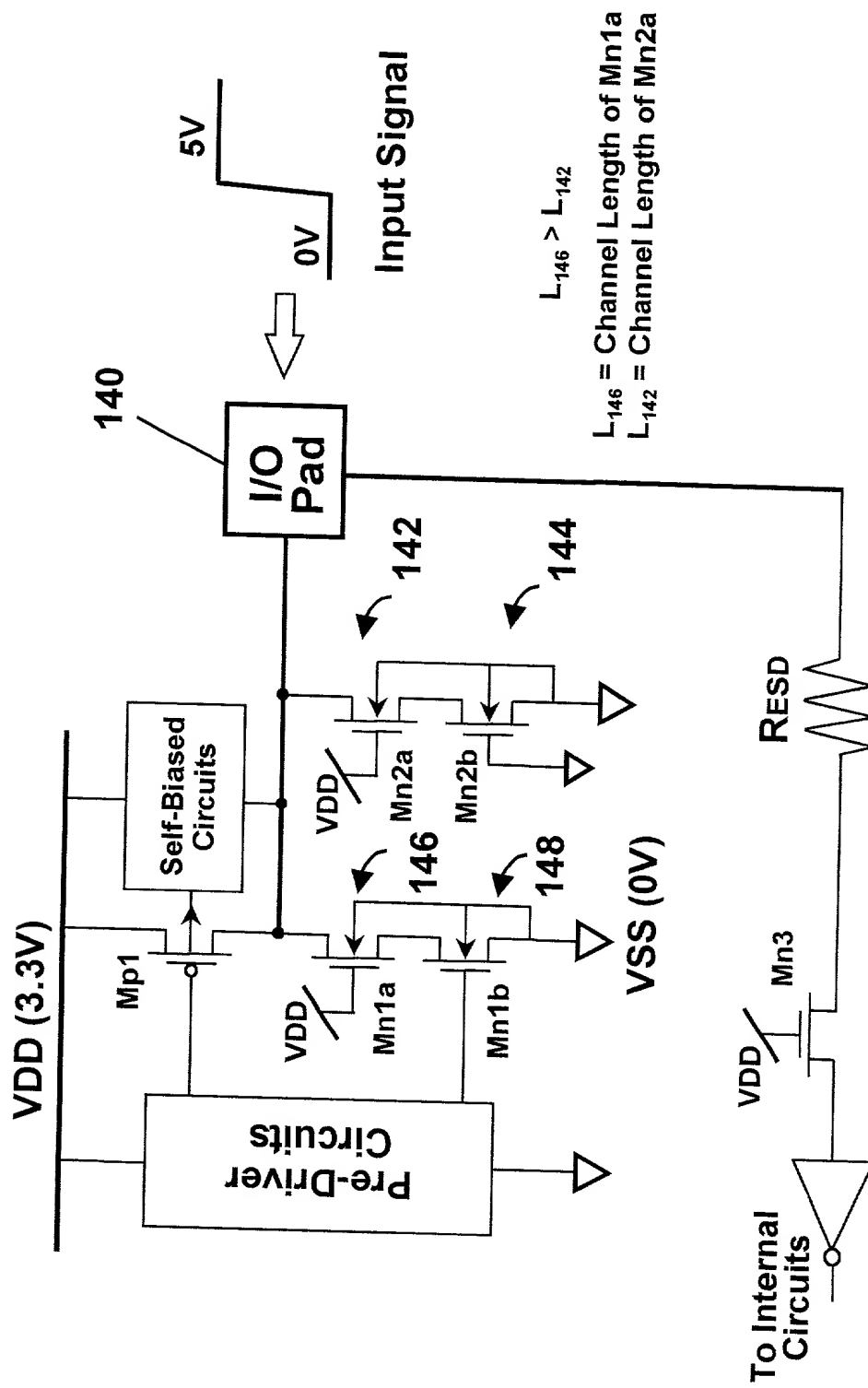


Fig.13





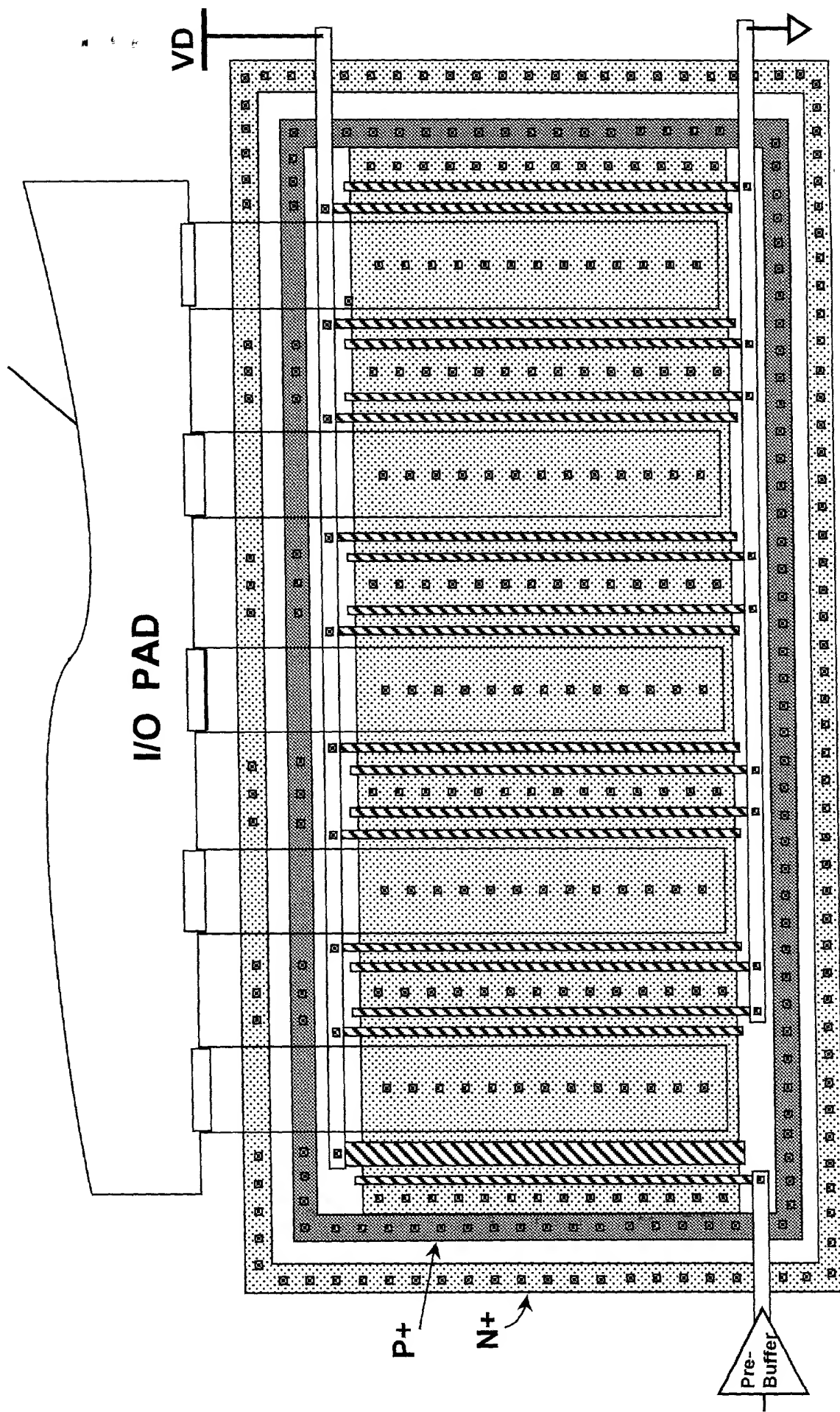


Fig.14(b)